with a narrow black border; of the female darker blue, broadly margined externally with dusky. On the under side the wings are dark brownish-gray, with the spots arranged much as in *L. antiaciSi* but with those of the hind wings generally white, and without a dark pupil. The series on the fore wing is usually distinctly pupiled with black. Expanse, 1.25 inch.

Early Stages.—Unknown.

The species is found in Newfoundland, Labrador, Anticosti, and westward and northward. It is a boreal form.

(13) Lycaena lygdamas, Doubleday, Plate XXXI, Fig. 17, *$* ; Fig. 18, $; Plate XXX, Fig. 50, ?, *under side* (The Silvery Blue).

Butterfly.—The male has the upper side of the wings pale silvery-blue, narrowly edged with black; the wings of the female on the upper side are darker blue, dusky on the borders, with a dark spot at the end of the cell of the primaries. On the under side the wings are pale chocolate-brown, with a submarginal band of black spots, margined with white, on both wings, as well as a spot at the end of the cells, and one or two on the costa of the secondaries. Expanse, .85-1.10 inch.

Early Stages.—These are yet to be ascertained.

The insect is reported from Michigan to Georgia.

(14) Lycana sagittigera, Felder. Plate XXXI, Fig. 19, *$* ; Fig. 20, ? ; Plate XXX, Fig. 44, ?, *under side* (The Arrow-head Blue).

Butterfly.—The wings in both sexes are variable pale blue, dusky on the margins, with white fringes checkered with dusky at the ends of the veins. On the under side the wings are dark gray, profusely spotted, the most characteristic markings being a white ray in the cell of the hind wings, a broad submarginal band of white arrow-shaped markings on both wings, with a black spot at the tip of each sagittate maculation and a dark triangular shade between the barbs. These

markings are not shown as they should be in Plate XXX, Fig. 44. They are only faintly indicated. Expanse, 1.25-1.30 inch.

Early Stages.— These await description.

This butterfly ranges from Oregon to Mexico, and eastward as far as Colorado on the mountains.

(15) Lycsena speciosa, Henry Edwards, Plate XXXII, Fig. I. $ J Fig. 2, ?, *under side* (The Small Blue).